

State of California
AIR RESOURCES BOARD
Executive Order DG-004
Distributed Generation Certification of
Ingersoll-Rand Energy Systems
70LM PowerWorks Microturbine

WHEREAS, the Air Resources Board (ARB) was given the authority under California Health and Safety Code section 41514.9 to establish a statewide Distributed Generation (DG) Certification Program to certify electrical generation technologies that are exempt from the permit requirements of air pollution control or air quality management districts;

WHEREAS, this DG Certification does not constitute an air pollution permit or eliminate the responsibility of the end user to comply with all federal, state, and local laws, rules and regulations;

WHEREAS, on March 6, 2003, Ingersoll-Rand Energy Systems applied for a DG Certification of its 70 kw, 70LM PowerWorks microturbine, which application was deemed complete on April 7, 2003;

WHEREAS, Ingersoll-Rand Energy Systems has demonstrated that its 70LM PowerWorks microturbine is unable to operate below eighty percent of full load conditions;

WHEREAS, Ingersoll-Rand Energy Systems has demonstrated, according to test methods specified in Title 17, California Code of Regulations (CCR), section 94207, that its natural gas-fueled 70LM PowerWorks microturbine has complied with the following emission standards:

1. Emissions of oxides of nitrogen no greater than 0.5 pound per megawatt hour;
2. Emissions of carbon monoxide no greater than 6.0 pound per megawatt hour;
3. Emissions of volatile organic compounds no greater than 1.0 pound per megawatt hour; and
4. Emissions of particulate matter no greater than an emission limit corresponding to natural gas with a fuel sulfur content of no more than 1 grain per 100 standard cubic feet;

WHEREAS, Ingersoll-Rand Energy Systems has demonstrated that its 70LM PowerWorks microturbine complies with the emissions durability requirements in Title 17, CCR, section 94203 (c);

WHEREAS, I find that the Applicant, Ingersoll-Rand Energy Systems, has met the requirements specified in article 3, Title 17, CCR, and has satisfactorily demonstrated

that its 70LM PowerWorks microturbine meets the 2003 DG Certification emission standards;

NOW, THEREFORE, IT IS HEREBY ORDERED, that a DG Certification, Executive Order DG-004, executed at Sacramento, California on May 30, 2003, is hereby granted.

This DG Certification:

- 1) is subject to all conditions and requirements of the ARB's DG Certification Program, article 3, Title 17, CCR, including the provisions relating to inspection, denial, suspension, and revocation;
- 2) shall be void if any manufacturer's modification results in the model operating below eighty percent of full load conditions;
- 3) shall be void if any manufacturer's modification results in an increase in emissions or changes the efficiency or operating conditions of a model, such that the model no longer meets the 2003 DG Certification emission standards; and
- 4) shall expire on December 31, 2006.

Catherine Witherspoon
Executive Officer
by

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Peter D. Venturini, Chief
Stationary Source Division